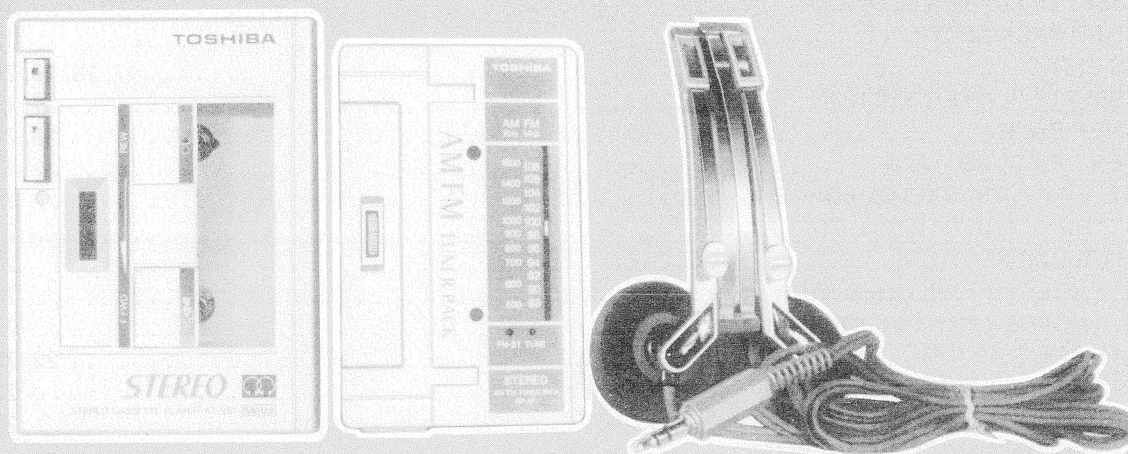


TOSHIBA

STEREO CASSETTE PLAYER

KT-VS1

(RP-AF1)



For Parts replacement in Tuner Pack, model RP-AF1, which is optional for KT-VS1 of "FY" version, refer to pages 19 to page 20 in this Service Data.

| SPECIFICATIONS | | | |
|-----------------------|---|--|--|
| ■ Tape Section | | Power supply: | |
| Track system: | Stereophonic | 3V DC (SUM-3 "AA" x 2) | |
| Recommended tape: | Normal ferric, chrome dioxide, and metal alloy: | External power source supplied to the [DC IN 3V] jack (3.4 mm dia. center contact negative) | |
| | C-30 to C-120 | | |
| Tape speed: | 4.8 cm/sec. | Dimensions: | |
| Frequency response: | Reproduction: 40-14 kHz | 79(W) x 108(W) x 29(D)mm | |
| Output terminals: | 3.5 mm dia. stereo headphone jack x 2 | Weight: | |
| Maximum output power: | Integration 40 mW (20 mW + 20 mW) with 32 ohm load | 265 g (including batteries but not the tuner pack.) | |
| Battery life: | Approx. 5 hours for tape playback at 1 mW output. Approx. 24 hours for radio operation. | ■ Tuner Section | |
| | | Receiving frequency: | |
| | | FM: 88 MHz to 108 MHz | |
| | | AM: 525 kHz to 1605 kHz | |
| | | <ul style="list-style-type: none"> This FM/AM tuner pack (RP-AF1) is designed exclusively for this unit (KT-VS1), and is not usable in other types of cassette recorders. | |

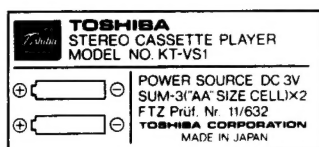
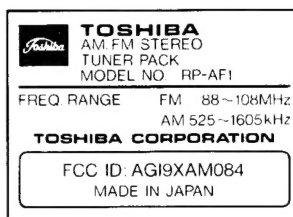
Specifications are subject to change without notice.

TA, TC, AY, YY, FY

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Name Label (KT-VS1)

Name Label (RP-AF1)
(TA, TC)Name Label (RP-AF1)
(YY, AY)

1. OPERATING CONTROLS

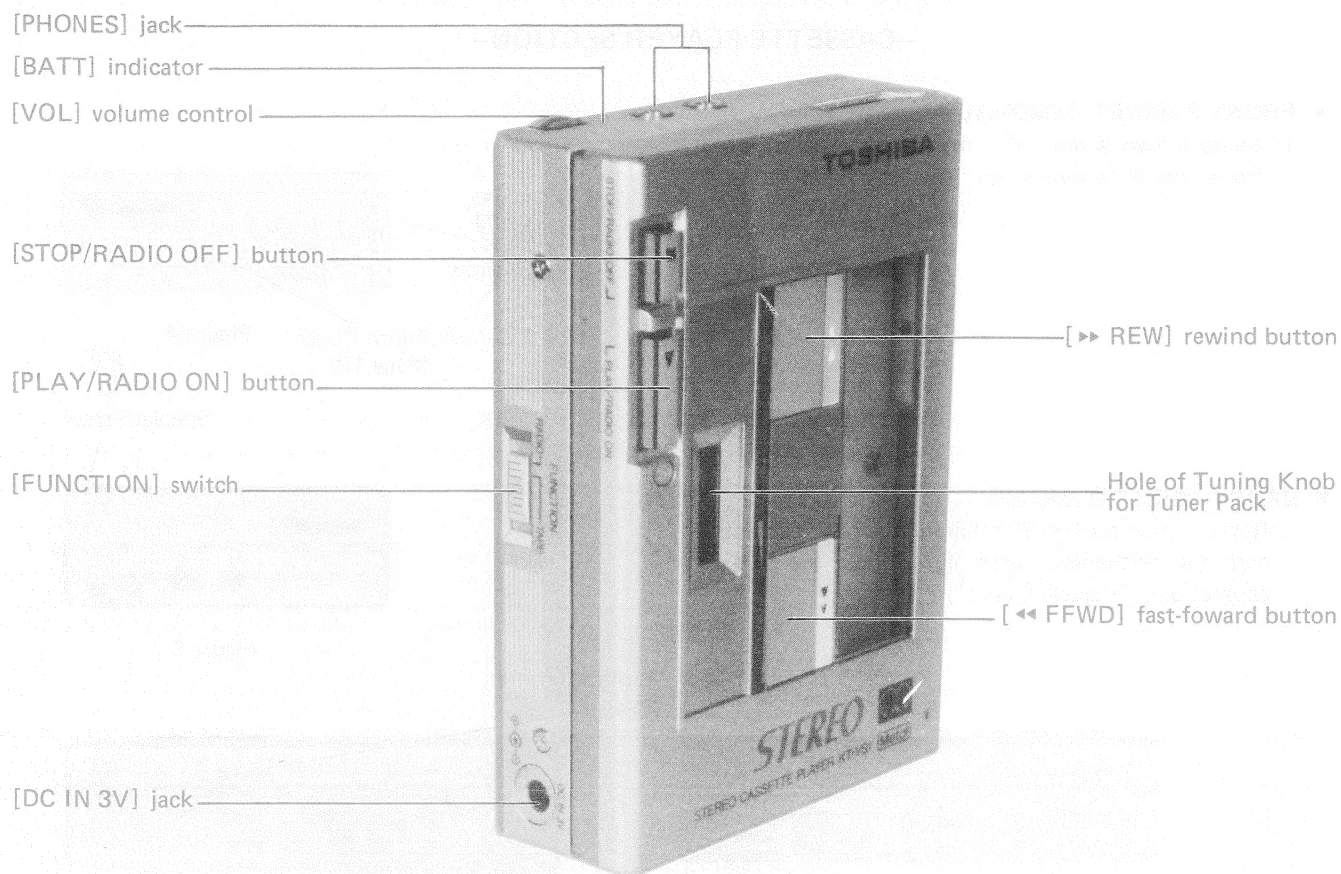


Figure 1

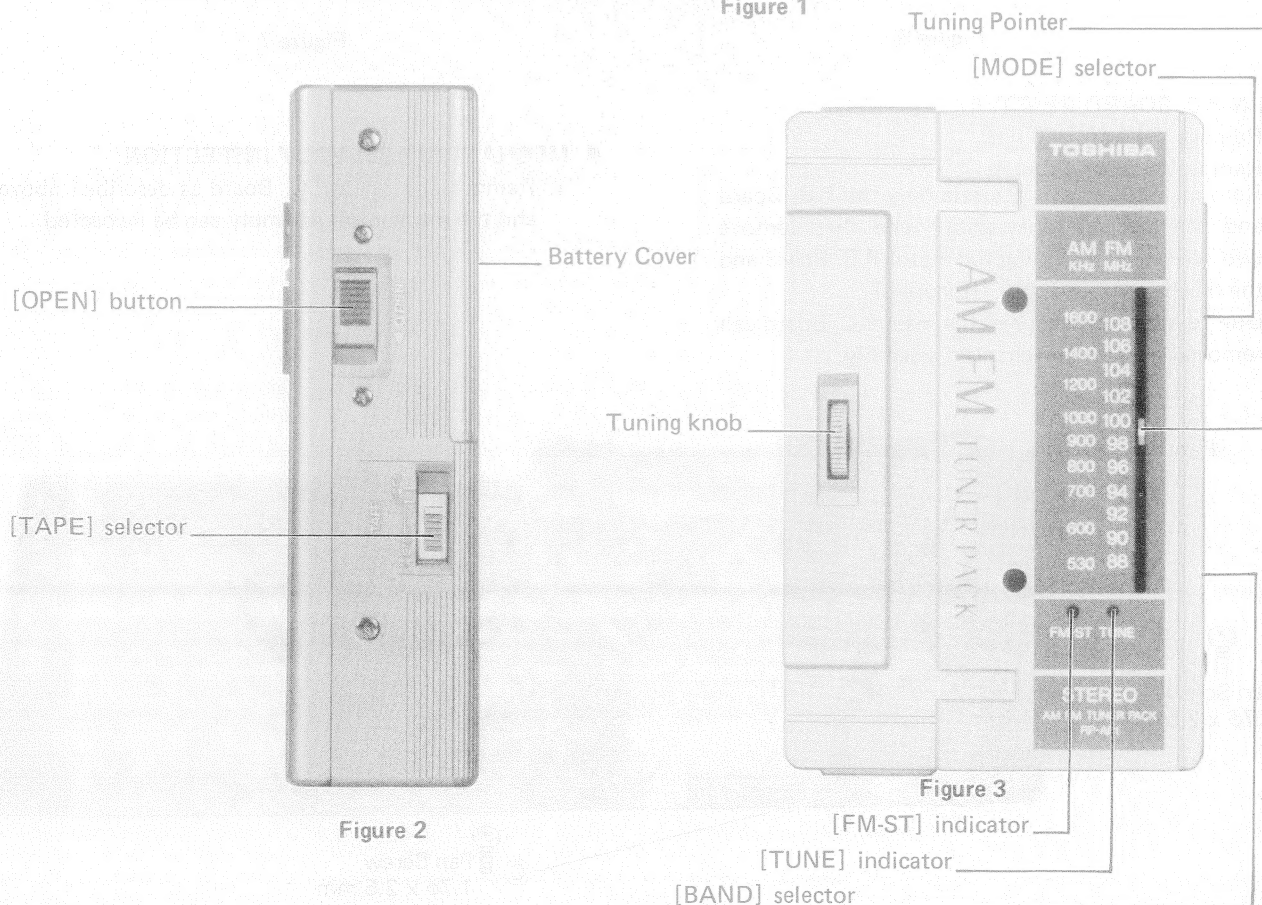


Figure 2

Figure 3

2. DISASSEMBLY INSTRUCTIONS

—CASSETTE PLAYER SECTION—

■ FRONT CABINET REMOVAL

1. Remove two screw (A) from both sides of the front cabinet to take it out. (Figures 4 and 5)

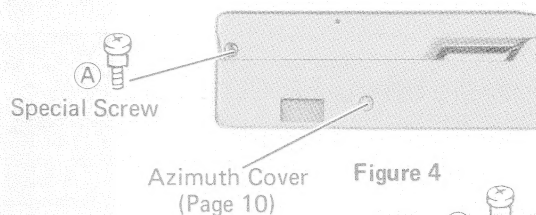


Figure 4

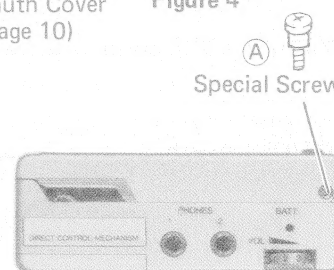


Figure 5

■ BACK CABINET REMOVAL

1. Remove four screws (B) retaining the back cabinet and the mechanism assembly to take the back cabinet out. (Figures 6 and 7)

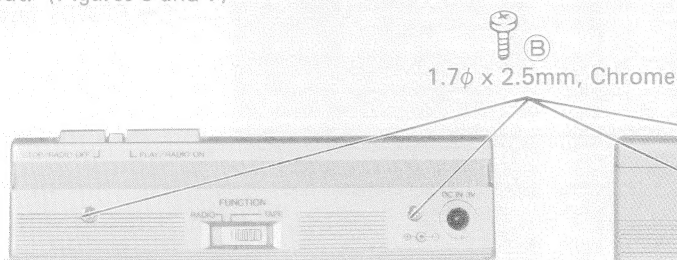


Figure 6

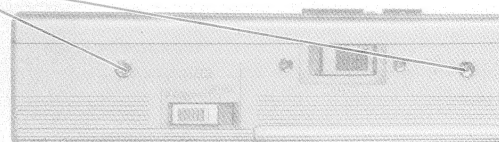


Figure 7

■ MAIN P.C. BOARD REMOVAL

1. Remove the front cabinet.
2. Remove the back cabinet.
3. Remove three screws (C) retaining the P.C. Board and the mechanism assembly, and then remove two screws (D) retaining the motor P.C. Board and the mechanism assembly, (Figure 8)
4. Due to above procedures, the main P.C. Board can be removed from the mechanism assembly.

■ MECHANISM ASSEMBLY INSPECTION

1. Remove the main P.C. Board as described above, and the mechanism assembly can be inspected.

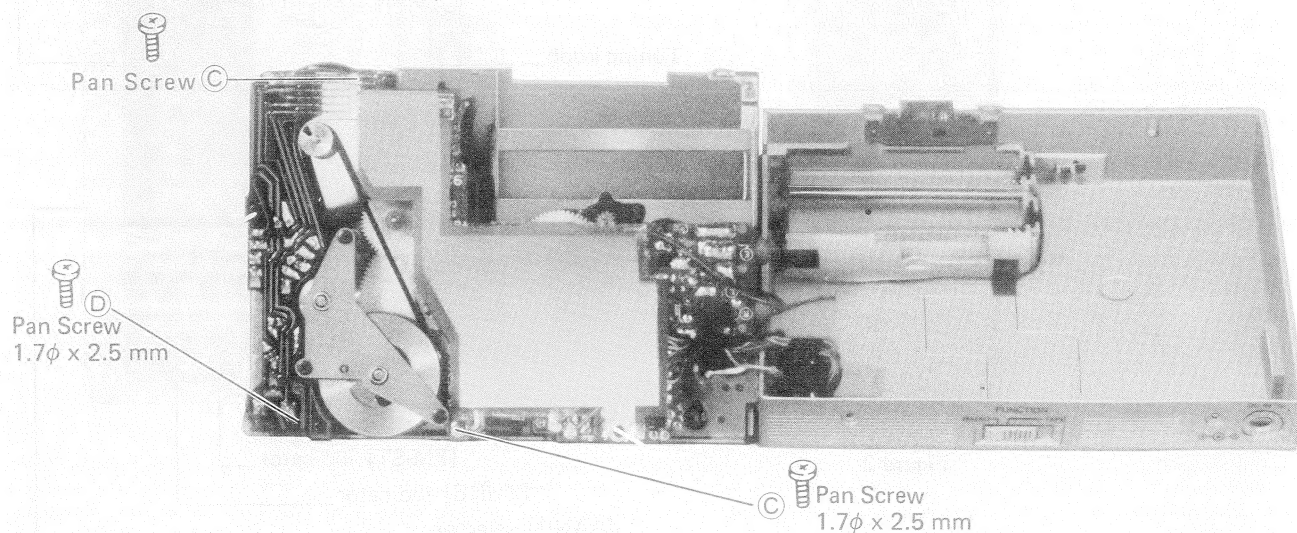


Figure 8

3. DIAL CORD RESTRINGING

—TUNE PACK SECTION—

■ UPPER CABINET REMOVAL

1. Remove three screws (E) from the bottom cabinet to take the upper cabinet out. (Figure 9)

■ P.C. BOARD OPENING

1. Remove the upper cabinet.
2. Take up the AM antenna coil adhered on the bottom cabinet with care not to cut lead wires from the P.C. Board.
3. Due to above procedures, the P.C. Board can be opened. (Refer to "TUNER PACK INSPECTION".)

■ TUNER PACK INSPECTION

When repairing the tuner pack, inspect it according to the following procedures.

1. Remove two special screws from the front cabinet side of the cassette player and then remove the front. (Figure 10)
2. Load the tuner pack from which the upper cabinet is removed, into the cassette holder. (Figure 11)

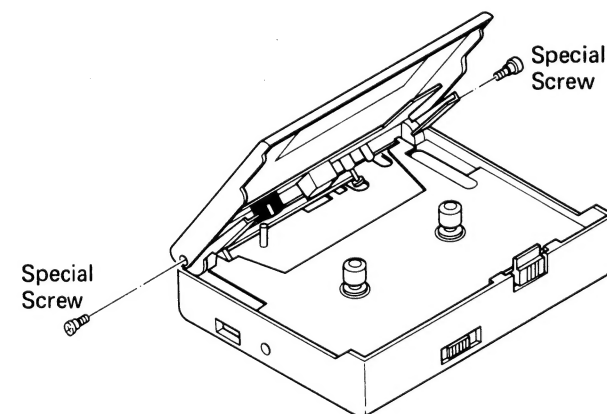


Figure 10

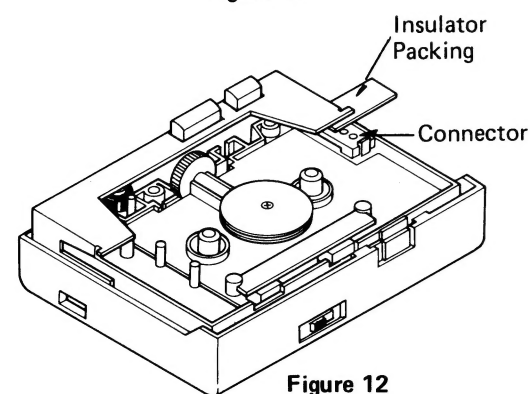


Figure 12

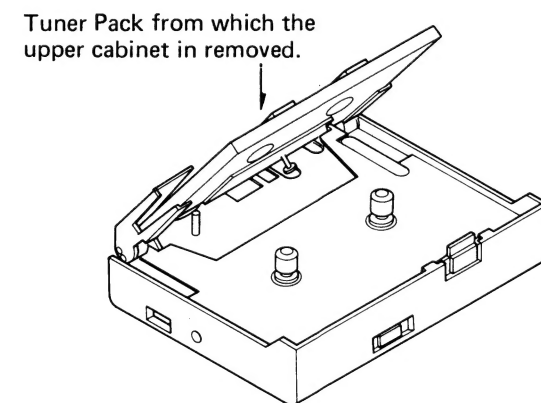


Figure 11

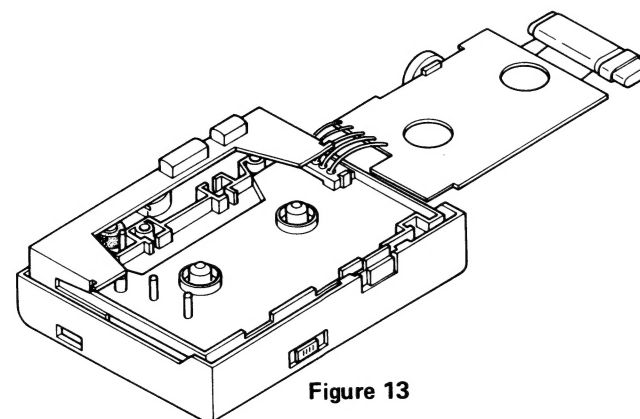


Figure 13

Special Screw

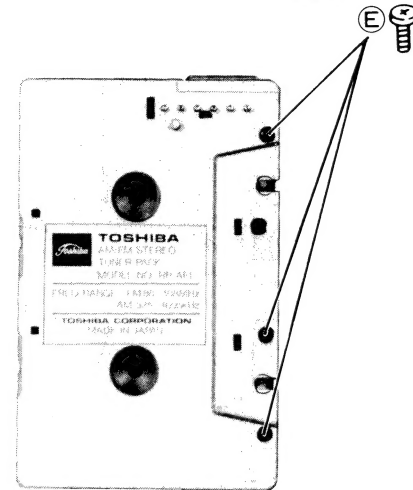


Figure 9

3. Set the cassette player and the tuner in the play mode. In this case, insert a insulator packing between the cassette holder and the tuner pack in order for the connector not to detach from the cassette player. (Figure 12)
4. It is possible to inspect the rear side of the P.C. Board as shown in Figure 13.

■ DIAL CORD STRINGING

Replace the dial cord according the following procedures.

1. Turn the tuning knob counterclockwise fully (to the direction of lower frequency).
2. Wind the dial cord in numerical order.
3. Fix the dial pointer on the cord so as to fit the pointer margin to the marking line on the mould frame.

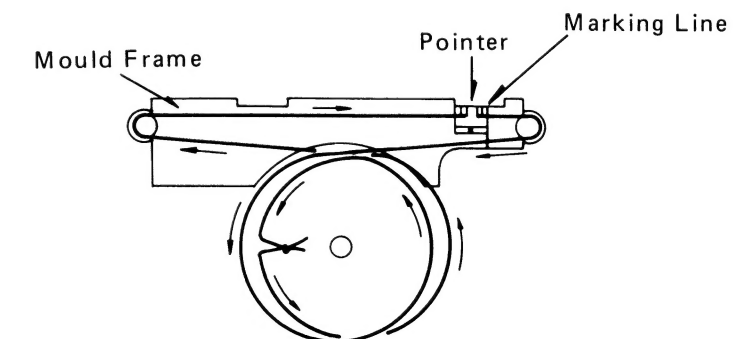
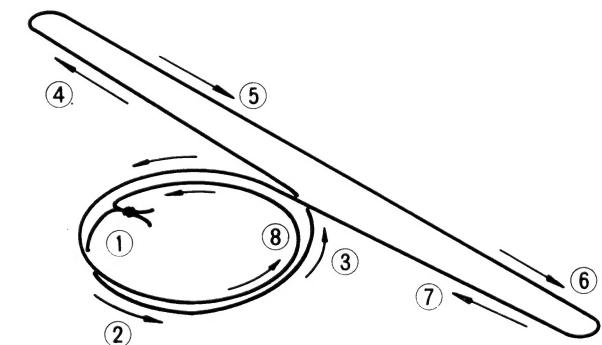
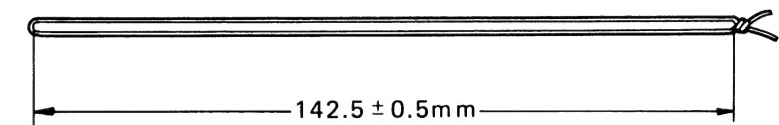


Figure 14

4. BLOCK DIAGRAM

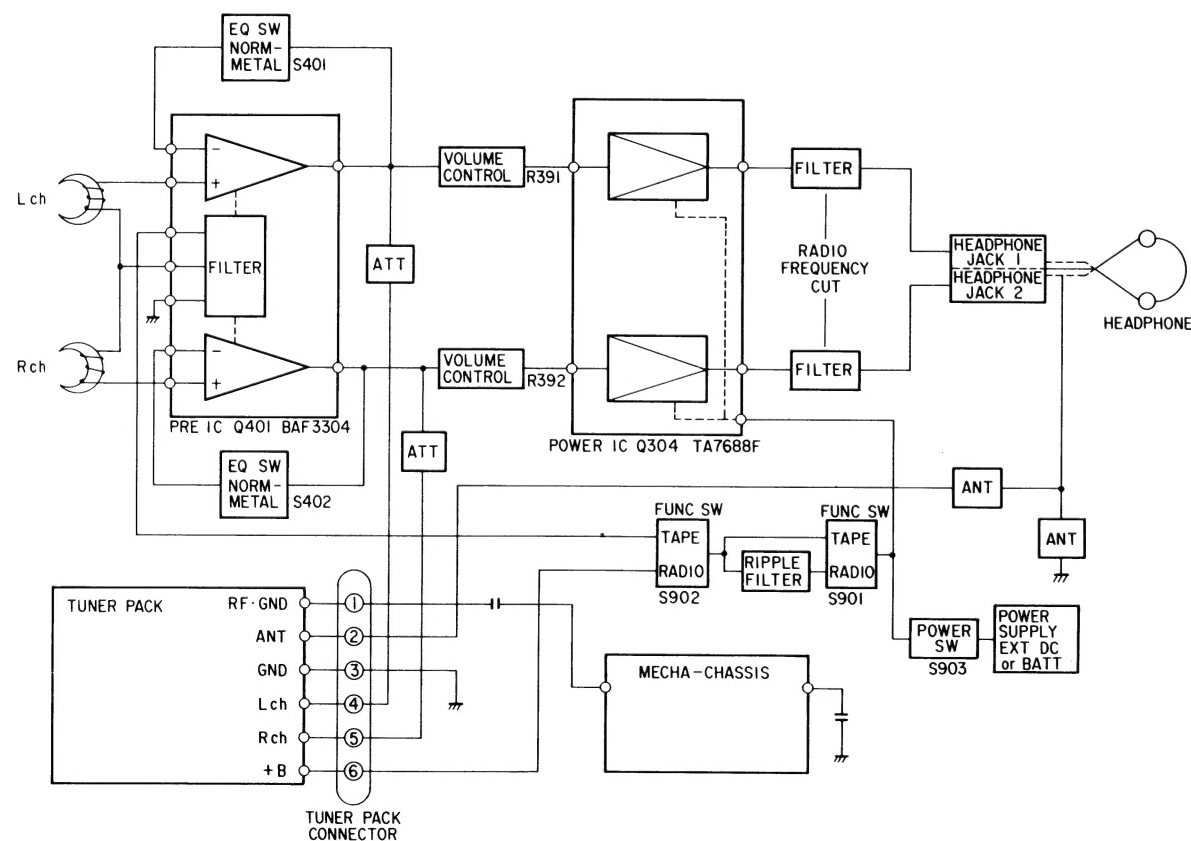
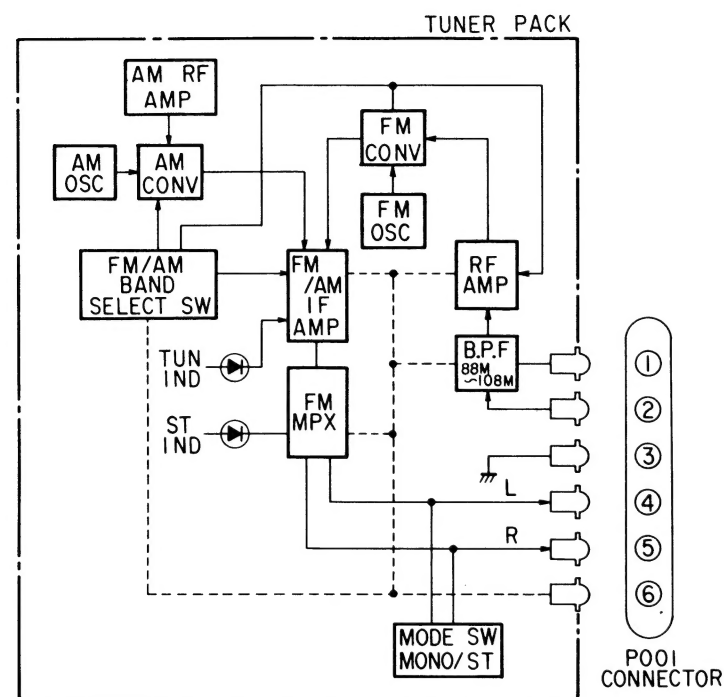


Figure 15

5. ALIGNMENT INSTRUCTIONS

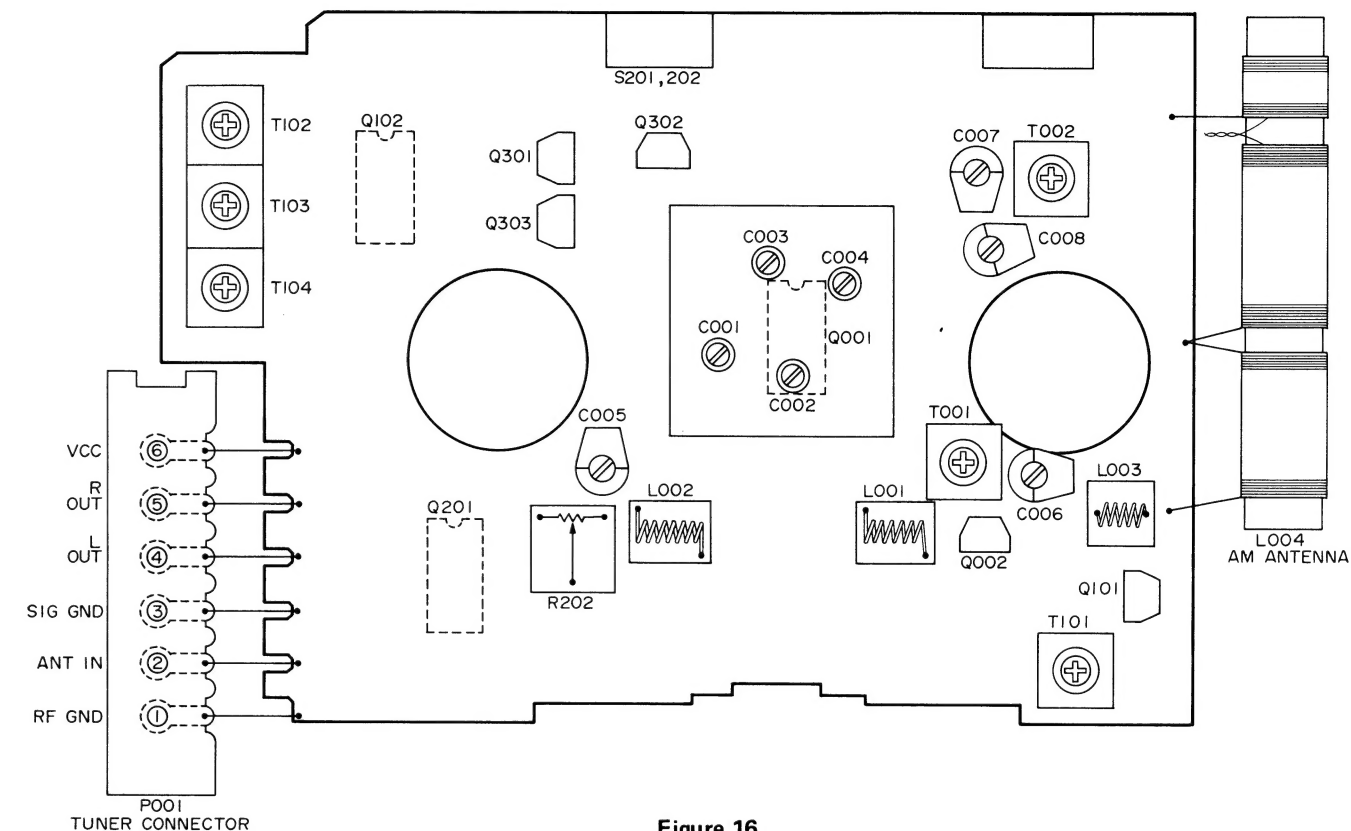


Figure 16

AM-IF ALIGNMENT

1. Turn on both sweep generator and oscilloscope, and allow a fifteen-minute warm-up period.
2. Connect the RF SWEEP SIGNAL OUTPUT from the signal generator through the loop antenna to the receiver.
3. Connect the oscilloscope vertical input directly to the test point L or R and connect the shielded lead to the test point Earth.
4. Connect the SWEEP VOLTAGE OUTPUT of the sweep generator to the oscilloscope.
5. Proceed as outlined in the AM-IF ALIGNMENT CHART.

AM-IF ALIGNMENT CHART

| Step | Signal coupling | Equip. | Tuning | Connection | Adjust. point | Pattern |
|------|---|---|--|--|---------------|---|
| 1 | Connect sweep generator output to a loop antenna. | Sweep generator of 455 kHz center freq. with 455 kHz marker. (YY ... 460 kHz) | Tuning Knob fully counter-clockwise (Highest Frequency.) | Set scope for connecting output signal from TUN OUT to vertical axis of scope "V" and sweep generator output to horizontal axis "H". | T102 T104 | Adjust coil T102 and T104 until the best single peak is obtained. |

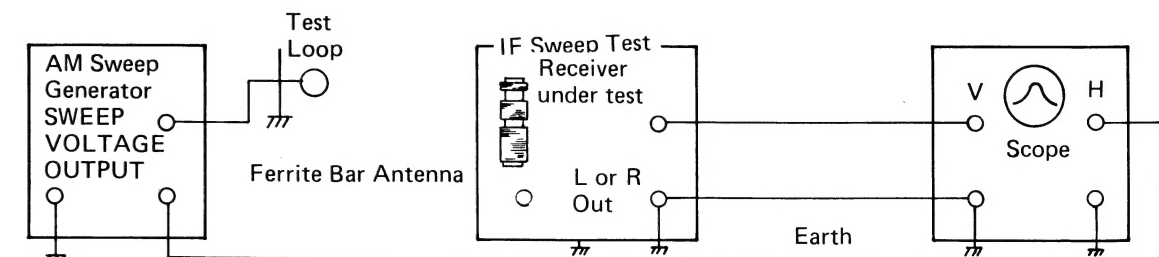


Figure 17

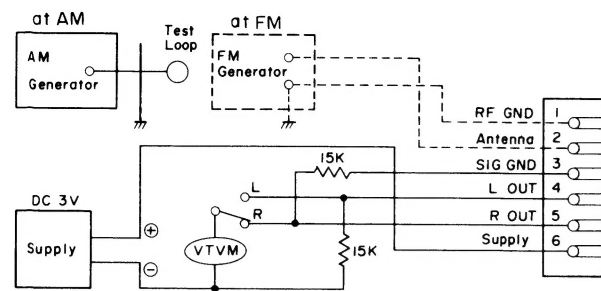


Figure 18

AM ALIGNMENT

1. Turn on the signal generator and the VTVM, and allow a fifteen-minute warm-up period.
2. Using the test loop across the output of the signal generator, inductively connect the signal generator to the radio.
3. Connect the VTVM across a 15K ohm dummy load.
4. Adjust the signal generator frequency as indicated in FM-RF ALIGNMENT CHART, and maintain a sufficient signal output level to provide a measurable indication.
5. Proceed as outlined in the FM-RF ALIGNMENT CHART.

AM-ALIGNMENT CHART

| Step | Signal Generator | Radio Dial Setting | Adjustment | Remarks |
|------|-----------------------------------|---|-----------------|--------------------------------------|
| 1 | 520 kHz | Tuning Knob fully Counterclockwise (Lowest Frequency) | OCS. Coil T102 | Adjust for maximum output indication |
| 2 | 1650 kHz | Tuning Knob fully Clockwise (Highest Frequency) | OSC. Trim. C007 | Adjust for maximum output indication |
| 3 | Repeat steps 1 and 2 as required. | | | |
| 4 | 600 kHz | Tune to signal | RF Coil L004 | Adjust for maximum Output indication |
| 5 | 1400 kHz | | Ant. Trim. C008 | |
| 6 | Repeat steps 4 and 5 as required. | | | |

FM-IF ALIGNMENT

1. Turn on both sweep generator and oscilloscope, and allow a fifteen-minute warm-up period.
2. Connect the RF SWEEP SIGNAL OUTPUT from the signal generator through the loop antenna to the receiver.
3. Connect the oscilloscope vertical input directly to the test point L or R and connect the shielded lead to the test point Earth.
4. Connect the SWEEP VOLTAGE OUTPUT of the sweep generator to the oscilloscope.
5. Proceed as outlined in the FM-IF ALIGNMENT CHART.

FM-IF ALIGNMENT CHART

| Step | Signal coupling | Equip. | Tuning | Connection | Adjust. point | Pattern |
|------|---|--|---|--|---------------|--|
| 1 | Connect sweep generator output to a three-turn loop antenna of 10cm diameter. | Sweep generator of 10.7 MHz center freq. with 10.7 MHz marker. | Tuning Knob fully counterclockwise (Highest Frequency.) | Set scope for connecting output signal from TUN OUT to vertical axis of scope "V" and sweep generator output to horizontal axis "H". | T101 T103 | Turn the coil T103 fully counterclockwise to obtain a single peak. Fig. 19. Adjust coil T101 in order until the best single peak is obtained. Finally turn the coil T103 to obtain S Curve. Fig. 20. |

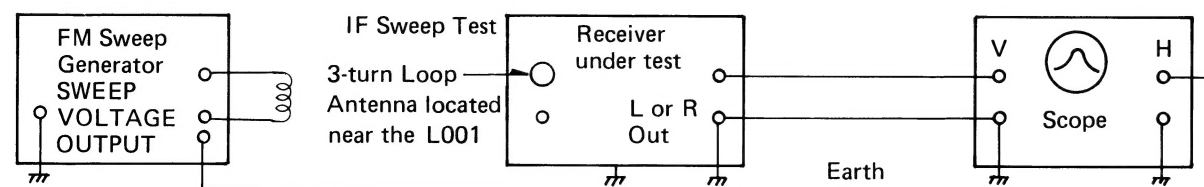


Figure 21

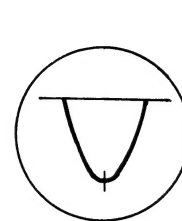


Figure 19

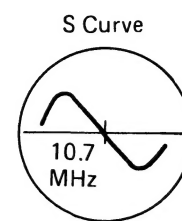


Figure 20

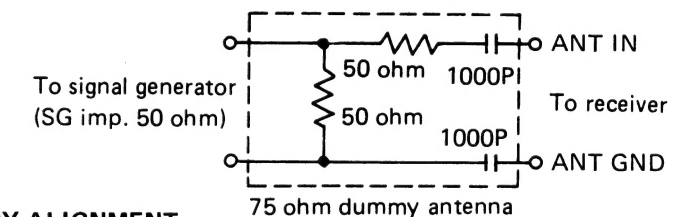
FM-RF ALIGNMENT

1. Turn on the signal generator and the VTVM, and allow a fifteen-minute warm-up period.
2. Connect the signal generator output through a 75 ohm dummy antenna across FM ANT.
3. Connect the VTVM across a 15K ohm dummy load.
4. Adjust the signal generator frequency as indicated in FM-RF ALIGNMENT CHART, and maintain a sufficient signal output level to provide a measurable indication.
5. Proceed as outlined in the FM-RF ALIGNMENT CHART.

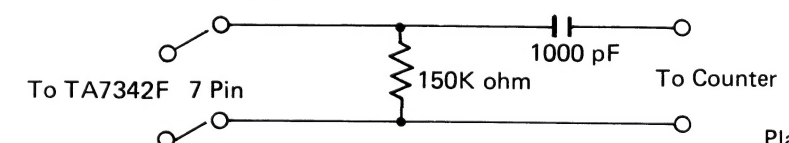
FM-RF ALIGNMENT CHART

| Step | Singal Generator | Radio Dial Setting | Adjustment | Remarks |
|------|-----------------------------------|---|-----------------|--------------------------------------|
| 1 | 87.5 MHz | Tuning Knob fully Counterclockwise (Lowest Frequency) | OCS. Coil L002 | Adjust for maximum output indication |
| 2 | 108 MHz | Tuning Knob fully Clockwise (Highest Frequency) | OSC. Trim. C005 | Adjust for maximum output indication |
| 3 | Repeat steps 1 and 2 as required. | | | |
| 4 | 90 MHz | Tune to signal | RF Coil L001 | Adjust for maximum output indication |
| 5 | 106 MHz | | Ant. Trim. C006 | |
| 6 | Repeat steps 4 and 5 as required. | | | |

CAUTION: When realigning the FM Receiving Frequency, the highest end of the frequency range should not be more than 108 MHz and the lowest end of the frequency range should not be less than 87.5 MHz, in order to comply with FTZ regulations in West Germany.

**FREE RUN FREQUENCY ALIGNMENT**

Adjust R202 under no signal condition so as to obtain 76 kHz \pm 150 Hz.

**PLAYBACK HEAD ADJUSTMENT**

A 6.3 kHz standard tape must be used for this adjustment. Connect a VTVM or an oscilloscope to the EXT Speaker jack and adjust the azimuth by using a phillips screwdriver to maintain the maximum output voltage. The adjustment is possible from the outside of the unit by removing the azimuth cover. Fig. 23

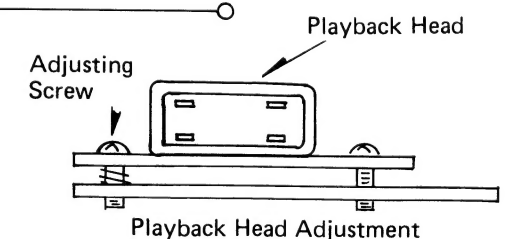


Figure 22

TAPE SPEED ALIGNMENT

Remove the azimuth cover on the left side of the unit, and the tape speed adjustment is possible from the outside. (Adjust for 3000 \pm 30 Hz with test tape MTT-111). Fig. 24.

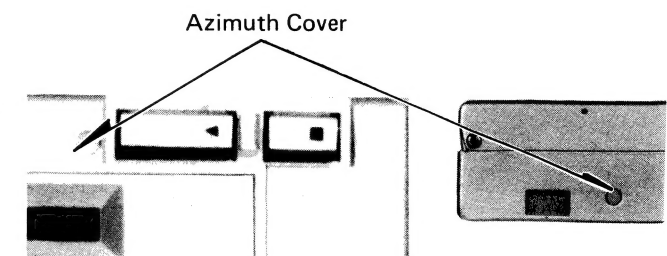


Figure 23

Figure 24

6-1. ELECTRICAL PARTS LOCATIONS

— CASSETTE PLAYER SECTION —

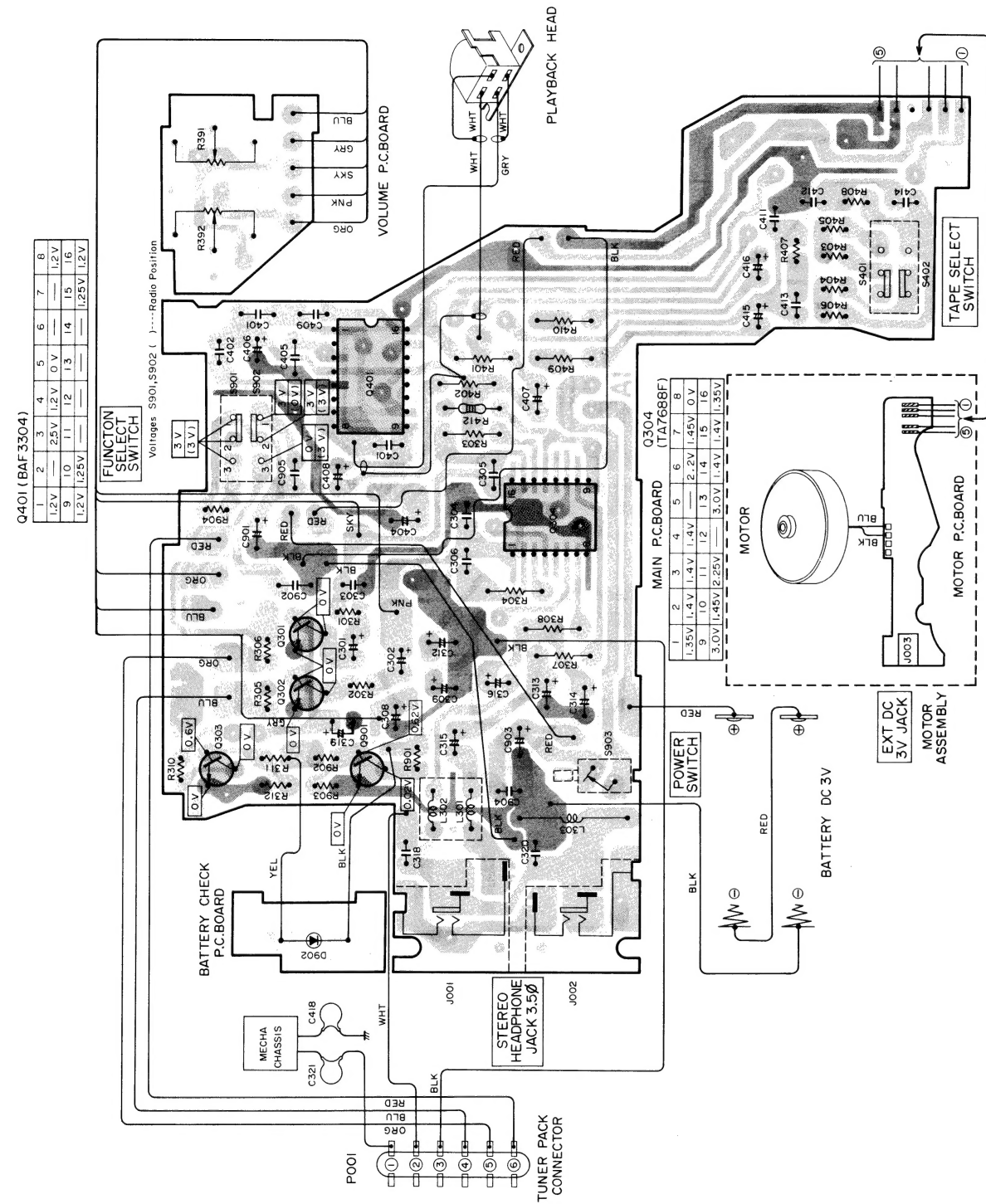


Figure 25

KT-VS1

KT-VS1

7-1. SCHEMATIC DIAGRAM

— CASSETTE PLAYER SECTION —

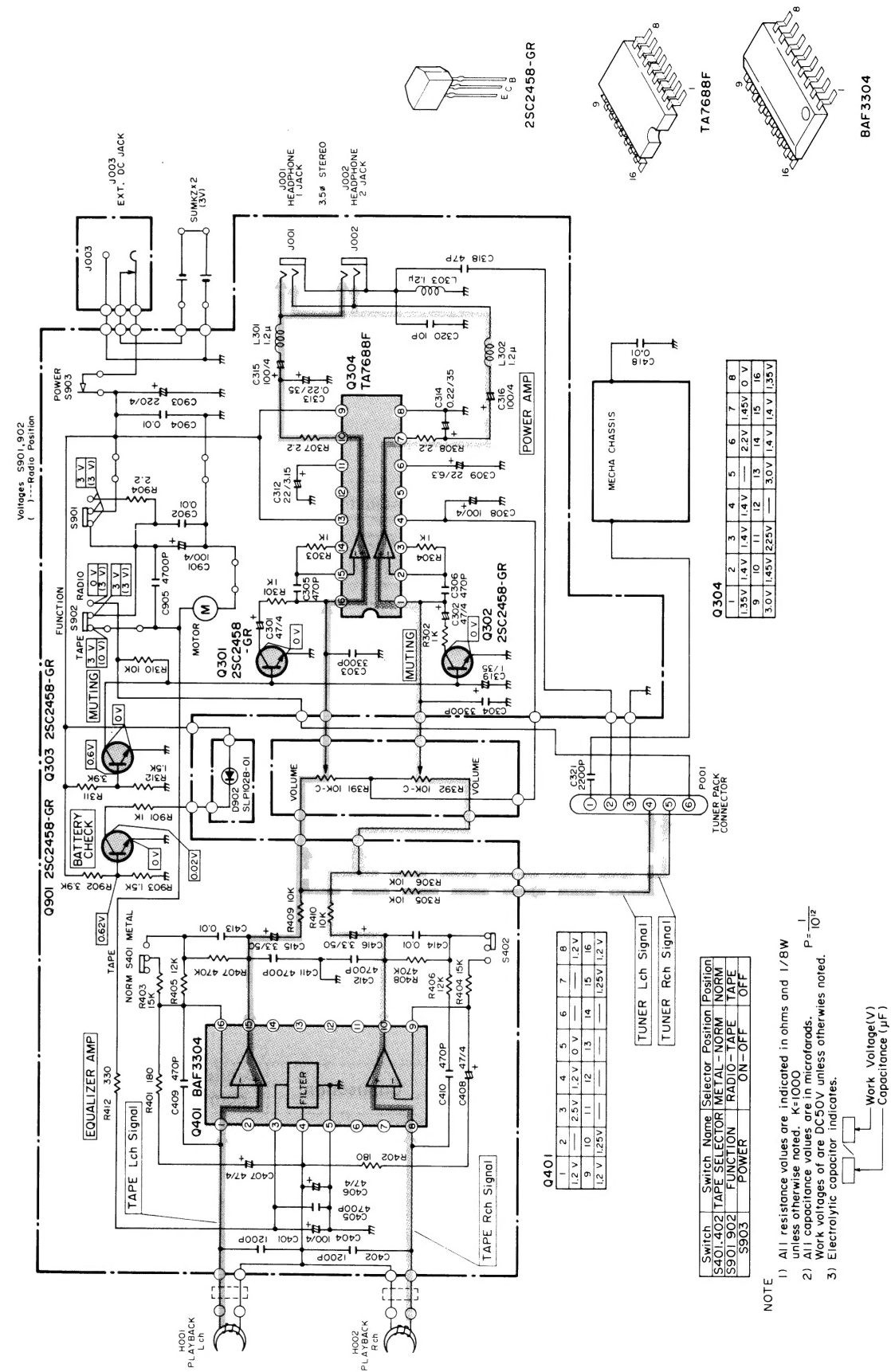


Figure 26

NOTE 1) All resistance values are indicated in ohms and 1/BW unless otherwise noted. K=1000
2) All capacitance values are in microfarads. P=10¹²
3) Electrolytic capacitor indicates.

6-2.ELECTRICAL PARTS LOCATIONS

— TUNER PACK SECTION —

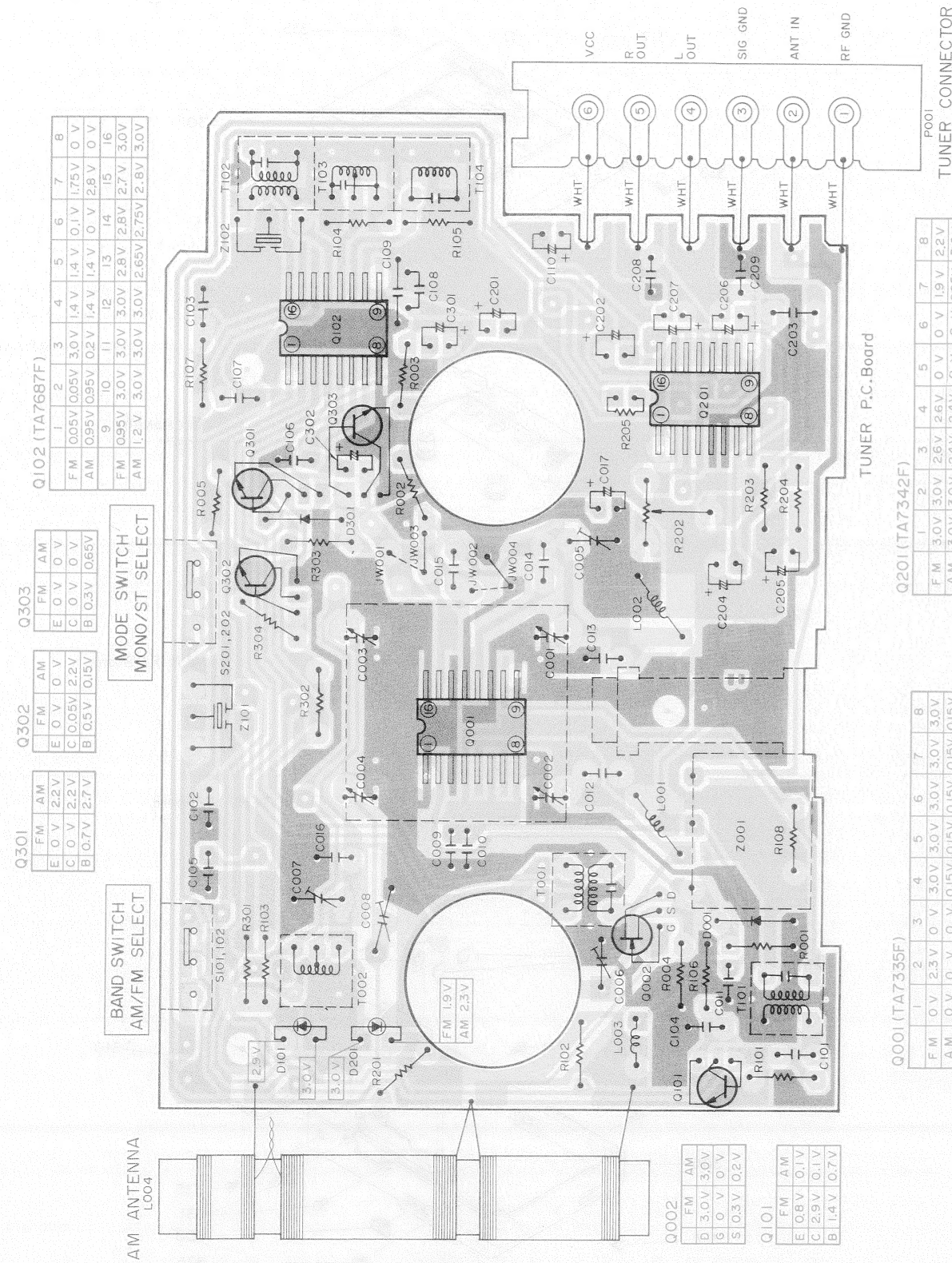


Figure 27

KT-VS1

KT-VS1

7-2.SCHEMATIC DIAGRAM

— TUNER PACK SECTION —

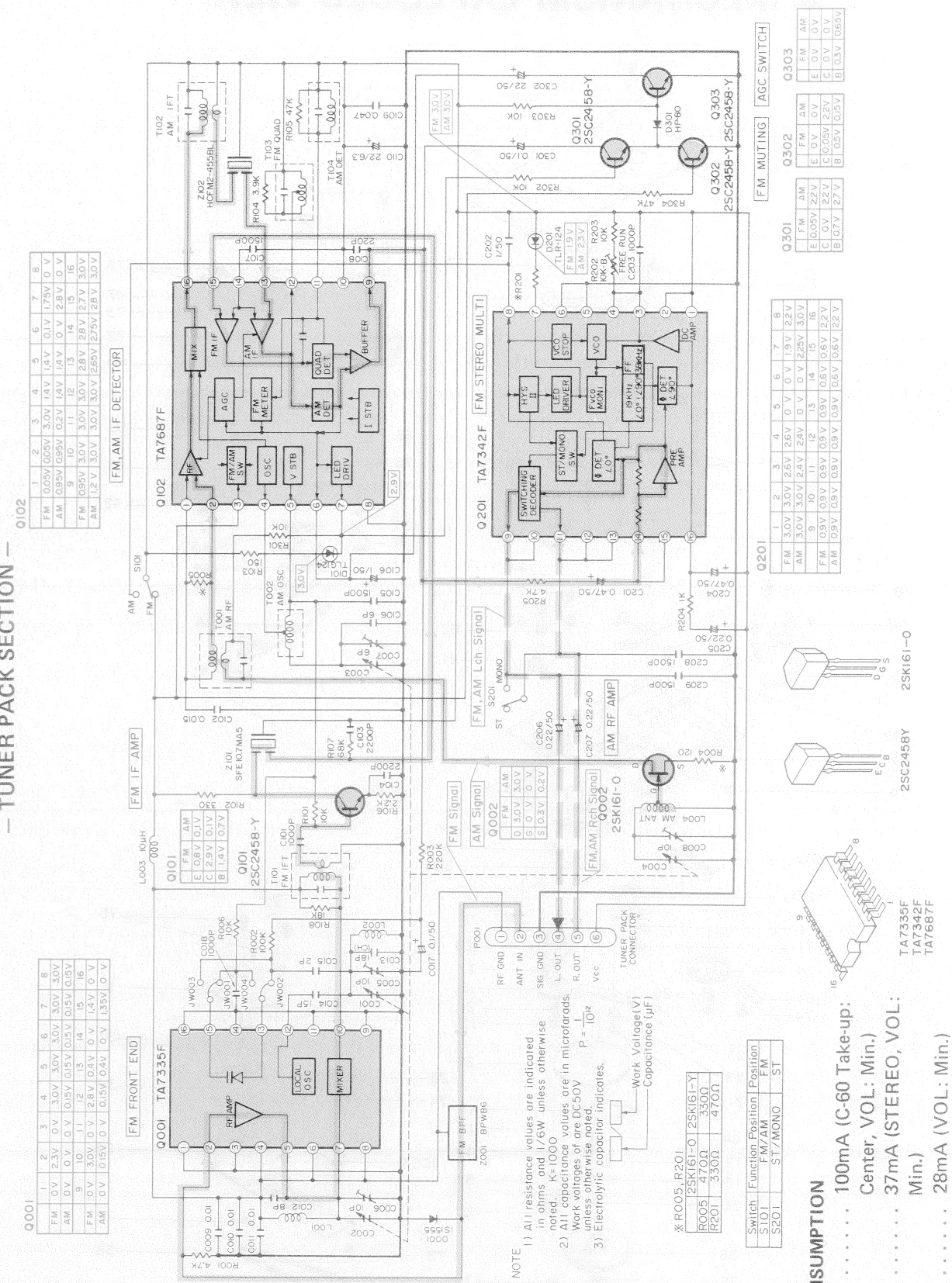
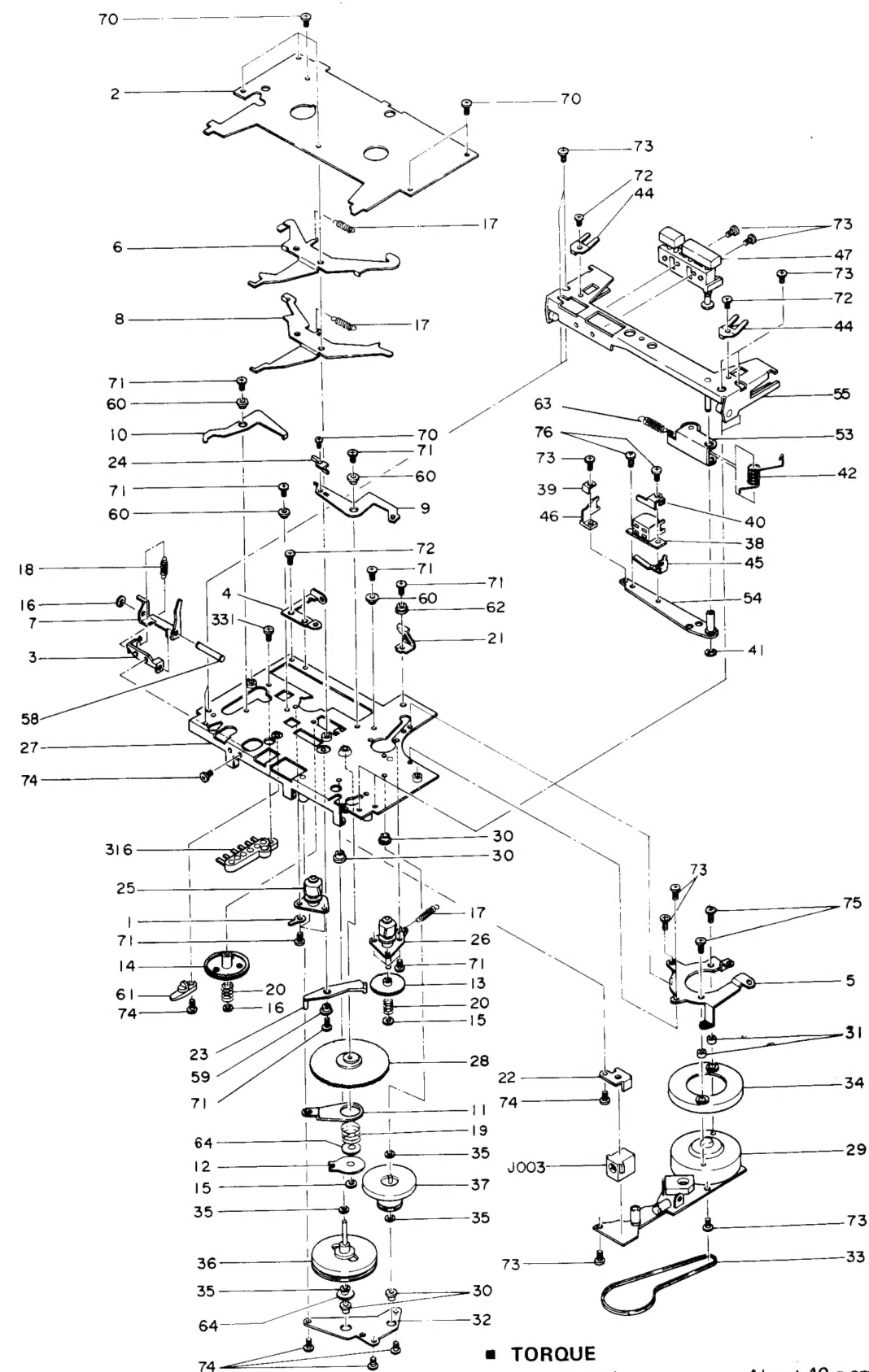


Figure 28

CURRENT CONSUMPTION

- TAPE 100mA (C-60 Take-up: Center, VOL: Min.)
- FM 37mA (STEREO, VOL: Min.)
- AM 28mA (VOL: Min.)

8. MECHANISM EXPLODED VIEW



■ TORQUE

PLAY About 40 g.cm
 FF More than about 70 g.cm
 REW. More than about 70 g.cm

Figure 29

9-1. CABINET EXPLODED VIEW

— CASSETTE PLAYER SECTION —

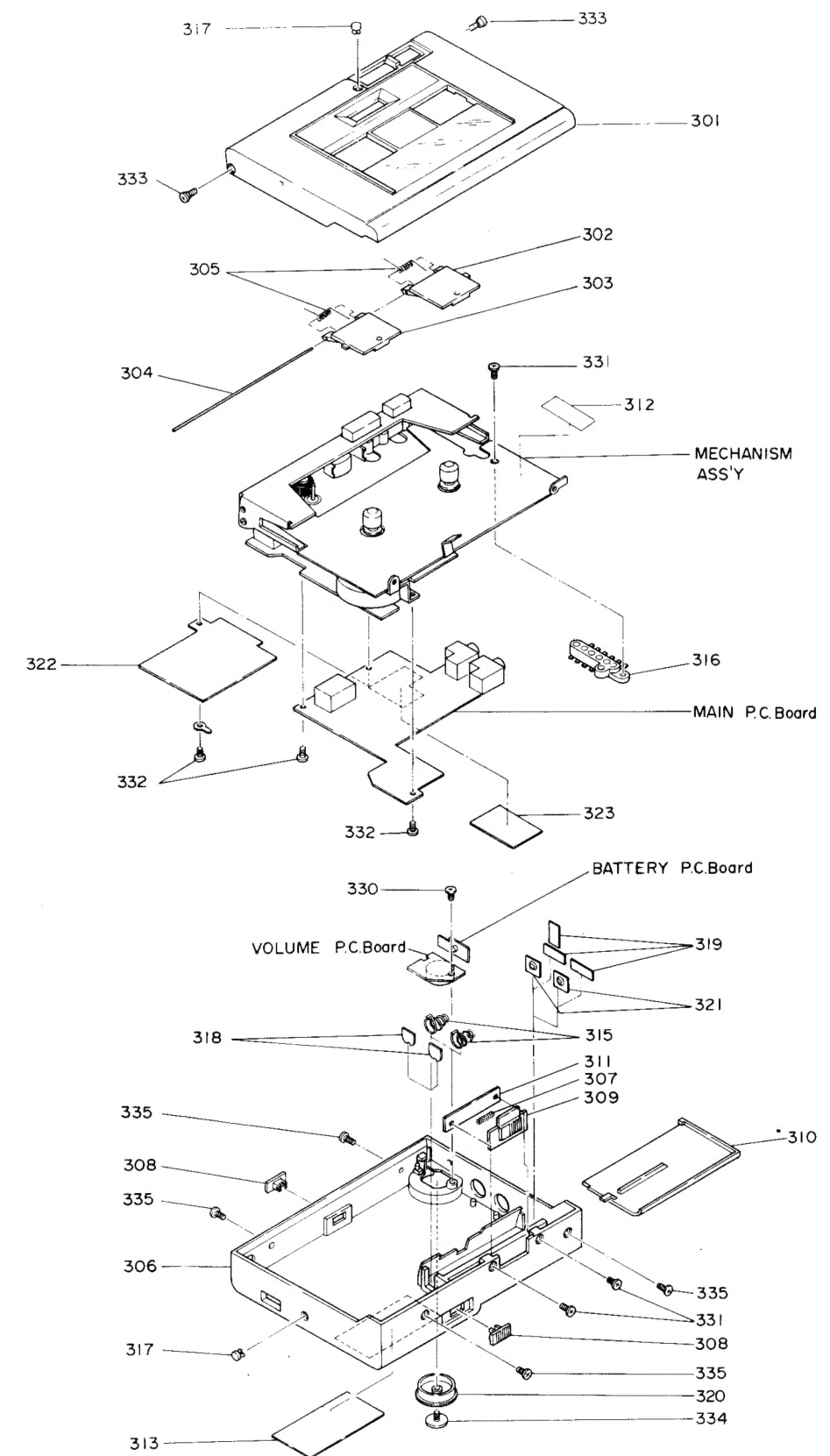


Figure 30

10-1. PARTS LIST

—CASSETTE PLAYER SECTION—

| Symbol No. | Part No. | Description |
|------------------------|----------|--|
| MECHANISM PARTS | | |
| 2 | 25734467 | Cover, Mechanism |
| 3 | 25737001 | Mounting, Play Lever |
| 4 | 25737003 | Mounting, Mechanism Cover |
| 6 | 25748911 | Lever, Lock |
| 7 | 25748913 | Lever, Play |
| 8 | 25748914 | Lever, Switch |
| 9 | 25748915 | Lever, Rewind |
| 10 | 25748916 | Lever, Stop |
| 11 | 25754424 | Lever, Frict |
| 12 | 25754440 | Washer |
| 13 | 25756299 | Gear, Rewind |
| 14 | 25756300 | Gear, Play |
| 15 | 25766050 | Washer |
| 16 | 25766079 | Washer |
| 17 | 25776472 | Spring |
| 18 | 25776473 | Spring, Play Lever Ass'y |
| 19 | 25777178 | Spring |
| 20 | 25777130 | Spring, Play Gear |
| 21 | 25779270 | Spring, Holder |
| 22 | 25781253 | Holder, Jack |
| 23 | 25782540 | Lever, ASO |
| 24 | 25783296 | Chip, Rewind Lever |
| 25 | 25712421 | Reel Plate Ass'y, L |
| 26 | 25712422 | Reel Plate Ass'y, R |
| 27 | 25791456 | Main Chassis Ass'y |
| 28 | 25791503 | Reel Ass'y, Take-up |
| 29 | 22125815 | Motor Ass'y, DC 3V with P.C. Board, Pulley |
| 30 | 25725445 | Holder |
| 31 | 25726660 | Spacer, Motor |
| 33 | 25755538 | Belt, Main |
| 34 | 25761482 | Cushion, Motor |
| 35 | 25766082 | Washer |
| 36 | 25717529 | Flywheel Ass'y |
| 37 | 25717530 | Sub Wheel Ass'y |
| 38 | 22217404 | Play Head |
| 41 | 25735159 | E Ring |
| 42 | 25775239 | Spring, Head Lever |
| 44 | 25779268 | Spring, Cassette Holder |
| 45 | 25779271 | Spring, Azimuth |
| 46 | 25783282 | Tape Guide |
| 47 | 25716310 | Button Ass'y |
| 53 | 25717528 | Pressure Lever Ass'y |
| 55 | 25791457 | Cassette Holder Ass'y |
| 58 | 25722474 | Pin, Play Lever |
| 59 | 25726653 | Boss, ASO Lever |
| 60 | 25726655 | Boss, Stop Lever |

| Symbol No. | Part No. | Description |
|----------------------|----------|--|
| 61 | 25783289 | Pin, Cassette Guide |
| 62 | 25726654 | Boss, Cassette Holder |
| 63 | 25776474 | Spring |
| 64 | 25754442 | Washer |
| 70 | 22707495 | Screw, 1.4 ϕ x 1.6mm, FLT |
| 71 | 22707496 | Screw, 1.4 ϕ x 2.5mm, PAN, BLK |
| 72 | 22707830 | Screw, 1.7 ϕ x 1.6mm, PAN, BLK |
| 73 | 22707831 | Screw, 1.7 ϕ x 2.5mm, PAN, BLK |
| 74 | 22707832 | Screw, 1.4 ϕ x 2.5mm, PAN, BLK |
| 75 | 22707882 | Screw, 1.7 ϕ x 3.5mm, PAN, BLK |
| 76 | 22701467 | Screw, 2 ϕ x 3mm, BID |
| CABINET PARTS | | |
| 301 | 25881575 | Cabinet Ass'y Front |
| 302 | 25837867 | Button, Rewind |
| 303 | 25837882 | Button, FF |
| 304 | 25847271 | Shaft, Button |
| 305 | 25847272 | Spring, Button |
| 306 | 25881576 | Cabinet Ass'y, Back |
| 307 | 25777149 | Spring, Lock |
| 308 | 25837869 | Knob, Slide Switch |
| 309 | 25837870 | Button, Lock |
| 310 | 25838985 | Cover, Battery |
| 311 | 25846594 | Holder, Button |
| 312 | 22900142 | Label, Caution, C-R2E |
| 313 | 22900207 | Name Label |
| 315 | 25777150 | Battery Spring |
| 316 | 25781251 | Connector |
| 317 | 25832543 | Cover, Azimuth |
| 318 | 25833525 | Spacer, Battery A |
| 319 | 25833526 | Spacer, Battery B |
| 320 | 25837868 | Knob, Volume |
| 321 | 25847274 | Battery Contact |
| 323 | 25854509 | Spacer, Lead |
| 330 | 22707612 | Screw, 1.4 ϕ x 3mm, PAN FL, BLK |
| 331 | 22707738 | Screw, 1.4 ϕ x 3mm, PAN, Chrome |
| 332 | 22707831 | Screw, 1.7 ϕ x 2.5mm, PAN |
| 333 | 22707850 | Special Screw |
| 334 | 22707851 | Volume Decoration Screw |
| 335 | 22707866 | Screw, 1.7 ϕ x 2.5mm, PAN, Chrome |

| Symbol No. | Part No. | Description |
|--|----------|-------------------------------------|
| TRANSISTORS, ICS AND DIODES | | |
| Q301, 302 | A6332440 | Transistor, 2SC2458-GR |
| Q304 | B0356885 | IC, TA7688F |
| Q401 | 22117064 | IC, BAF3304 |
| Q901 | A6332440 | Transistor, 2SC2458-GR |
| D901 | 22115782 | Diode, SLP102B-01 |
| ELECTRICAL PARTS | | |
| L301, 302 | 22292153 | Coil, RT-51-2153 |
| L303 | 22291128 | Coil |
| J001, 002 | 22163947 | Jack, 3.5 ϕ , Stereo Headphone |
| J003 | 22163936 | Jack, DC power (DC-3V) |
| S401, 402 | 22196056 | Switch, Slide, Tape Select |
| S901, 902 | 22196056 | Switch, Slide, Function Select |
| S903 | 22196089 | Switch, Leaf, Power |
| CAPACITORS | | |
| D = $\pm 0.5\mu\text{F}$, J = $\pm 5\%$, K = $\pm 10\%$, M = $\pm 20\%$ | | |
| ABBREVIATIONS: CD = Ceramic Disk, EL = Electrolytic | | |
| BL = Barrier Layer, TT = Tantalum | | |
| C301, 302 | 22440518 | EL, 47mfd, 4V |
| C303, 304 | 22360601 | BL, 3300pF, 25V, M |
| C305, 306 | 22360362 | CD, 470pF, 50V, K |
| C308 | 22440517 | EL, 100mfd, 4V |
| C309 | 22440451 | EL, 22mfd, 6.3V |
| C312 | 22490003 | TT, 22mfd, 3.15V |
| C313, 314 | 22490035 | TT, 0.22mfd, 35V |
| C315, 316 | 22440517 | EL, 100mfd, 4V |
| C318 | 22360352 | CD, 47pF, 50V, D |
| C319 | 22490033 | TT, 1mfd, 10V |
| C320 | 22360359 | CD, 10pF, 50V, D |
| C321 | 22360367 | CD, 2200pF, 50V, K |
| C401, 402 | 22360621 | BL, 1200pF, 25V, K |
| C404 | 22440517 | EL, 100mfd, 4V |
| C405 | 22360325 | BL, 4700pF, 25V, M |
| C406, 407 | 22440518 | EL, 47mfd, 4V |
| 408 | | |
| C409, 410 | 22360362 | CD, 470pF, 50V, K |
| C411, 412 | 22360573 | BL, 4700pF, 25V, K |
| C413, 414 | 22360665 | BL, 0.01mfd, 25V, J |
| C415, 416 | 22440442 | EL, 3.3mfd, 50V |
| C418 | 22360344 | BL, 0.01mfd, 25V, M |
| C901 | 22440517 | EL, 100mfd, 4V |
| C902 | 22360344 | BL, 0.01mfd, 25V, M |

| Symbol No. | Part No. | Description |
|---|----------|--------------------------|
| C903 | 22440516 | EL, 220mfd, 4V |
| C904 | 22360344 | BL, 0.01mfd, 25V, M |
| C905 | 22360325 | BL, 4700pF, 25V, M |
| RESISTORS | | |
| G = $\pm 2\%$, J = $\pm 5\%$ | | |
| All resistors are carbon film, 1/8W unless otherwise noted. | | |
| R301, 302 | 22550181 | 1K ohm, J |
| R303, 304 | 22540599 | 1K ohm, G |
| R305, 306 | 22550192 | 10K ohm, J |
| R307, 308 | 22540478 | 2.2 ohm, J |
| R310 | 22550192 | 10K ohm, J |
| R311 | 22550418 | 3.9K ohm, G |
| R312 | 22550415 | 1.5K ohm, G |
| R391, 392 | 22611404 | 10K ohm, Variable volume |
| R401, 402 | 22540595 | 180 ohm, G |
| R403, 404 | 22550194 | 15K ohm, J |
| R405, 406 | 22550407 | 12K ohm, G |
| R407, 408 | 22550213 | 470K ohm, J |
| R409, 410 | 22584103 | 10K ohm, 1/6W, J |
| R412 | 22584331 | 330 ohm, 1/6W, J |
| R901 | 22550181 | 1K ohm, J |
| R902 | 22550418 | 3.9K ohm, G |
| R903 | 22550415 | 1.5K ohm, G |
| R904 | 22550223 | 2.2 ohm, J |

9-2. CABINET EXPLODED VIEW

— TUNER PACK SECTION —

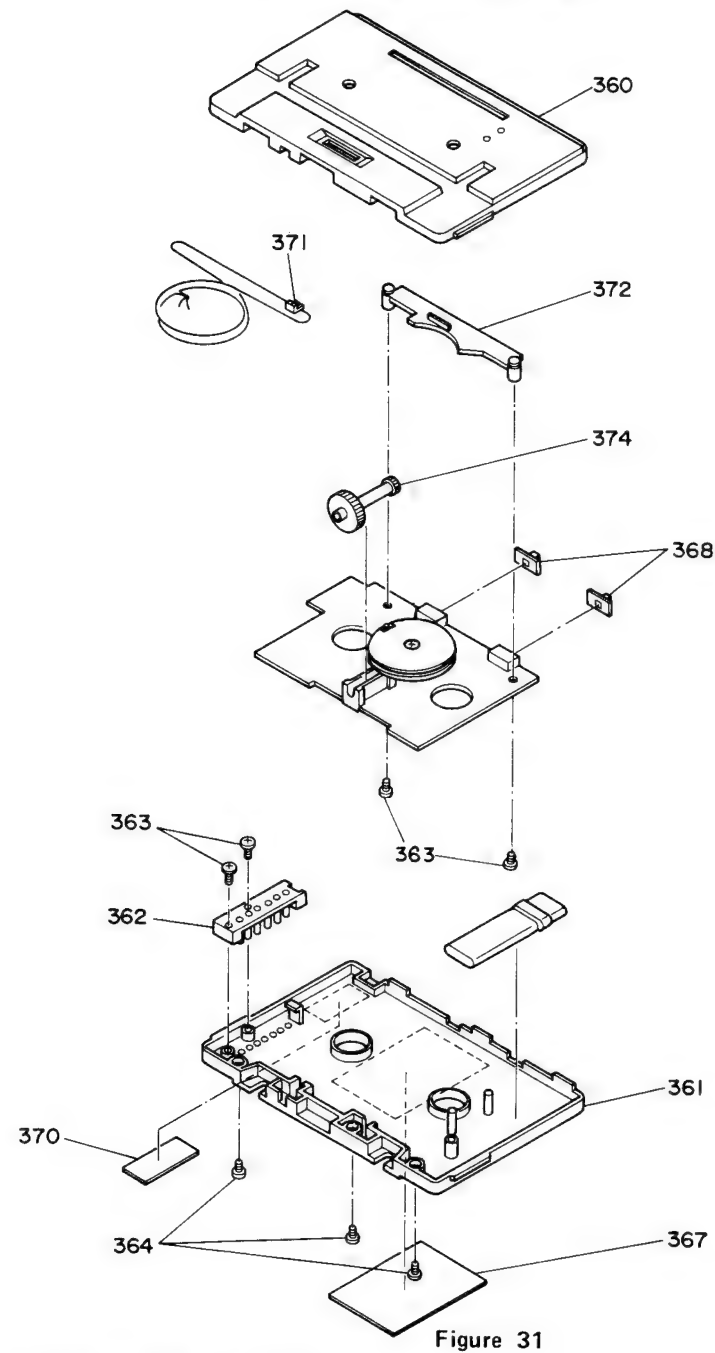


Figure 31

10-2. PARTS LIST — TUNER PACK SECTION —

| Symbol No. | Part No. | Description |
|----------------------|----------|--------------------------|
| CABINET PARTS | | |
| 360 | 22881179 | Cabinet, Upper |
| 361 | 22881165 | Cabinet, Bottom |
| 362 | 22161726 | Connector, 6P |
| 363 | 22707638 | Screw, 1.7φ x 4.5mm, BID |
| 364 | 22707662 | Screw, Special, Tapping |

| Symbol No. | Part No. | Description |
|------------|----------|------------------------|
| 367 | 22866200 | Name Label, (YY, AY) |
| 367 | 22866201 | Name Label, (TA, TC) |
| 368 | 22884242 | Knob, Cap |
| 370 | 22900142 | Label, Caution, C-R2-E |
| 371 | 22741393 | Pointer |
| 374 | 22824402 | Knob, Tuning |

Note: The Tuner Pack for "FY" is optional.

| Symbol No. | Part No. | Description |
|---|----------|--------------------------------|
| TRANSISTORS ICS AND DIODES | | |
| Q001 | B0325275 | IC, TA7335F |
| Q002 | A6042620 | Transistor, FET, 2SK161-O |
| Q101 | A6332430 | Transistor, 2SC2458-Y |
| Q102 | B0356875 | IC, TA7687F |
| Q201 | B0325335 | IC, TA7342F |
| Q301, 302, 303 | A6332430 | Transistor, 2SC2458-Y |
| D001 | A7246703 | Diode, 1S1555V |
| D101 | A8606201 | Diode, LED, TLG-124A |
| D201 | A8601150 | Diode, LED, TLR-124A |
| D301 | 22115677 | Diode, D-HP-80-L |
| ELECTRICAL PARTS | | |
| L001 | 22295141 | Coil, LH010-5.5T |
| L002 | 22295142 | Coil, LH010-4.5T |
| L003 | 22241065 | Coil, CH100 |
| L004 | 22242918 | Coil, AM Antenna |
| T001 | 22264864 | IF Transformer, AM, RF |
| T002 | 22245414 | Coil, AM, Oscillator |
| T101 | 22265837 | IF Transformer, FM |
| T102 | 22264865 | IF Transformer, AM |
| T103 | 22267419 | IF Transformer, FM, QUAD |
| T104 | 22266388 | IF Transformer, AM Detector |
| Z001 | 22153222 | Filter, FM, Band-Pass |
| Z101 | 22153067 | Filter, Ceramic, FM, 10.7 MHz |
| Z102 | 22153220 | Filter, Ceramic, AM, TER-455BL |
| S101 ~ 102 | 22196060 | Switch, AM, FM |
| S201 ~ 202 | 22196060 | Switch, Mono/Stereo Select |
| CAPACITORS | | |
| D = ±0.5pF, J = ±5%, K = ±10%, M = ±20% | | |
| ABBREVIATIONS: CD = Ceramic Disk, EL = Electrolytic | | |
| BL = Barrier Layer, PS = Polystyrene | | |
| C001 ~ 004 | 22308560 | Poly Variable Capacitor |
| C005 | 22309191 | Trimmer, 10pF |
| C006 | 22309191 | Trimmer, 10pF |
| C007 | 22309190 | Trimmer, 6pF |
| C008 | 22309159 | Trimmer, 10pF |
| C009, 010, 011 | 22360604 | BL, 0.01mfd, 25V, M |
| C012 | 22361180 | CD, 18pF, 50V, J |
| C013 | 22360133 | CD, 18pF, 50V, J |
| C014 | 22361150 | CD, 15pF, 50V, J |
| C015 | 22361209 | CD, 2pF, 50V, D |
| C016 | 22361609 | CD, 6pF, 50V, D |
| C017 | 22440439 | EL, 0.1mfd, 50V |
| C018 | 22349102 | CD, 1000pF, 50V, K |

| Symbol No. | Part No. | Description |
|--|----------|--|
| C101 | 22349102 | CD, 1000pF, 50V, K |
| C102 | 22360605 | BL, 0.015mfd, 25V, M |
| C103, 104 | 22360323 | BL, 2200pF, 25V, M |
| C105 | 22360605 | BL, 0.015mfd, 25V, M |
| C106 | 22440272 | EL, 1mfd, 50V |
| C107 | 22360605 | BL, 0.015mfd, 25V, M |
| C108 | 22349221 | CD, 220pF, 50V, K |
| C109 | 22360608 | BL, 0.047mfd, 25V, M |
| C110 | 22440277 | EL, 22mfd, 6.3V |
| C201 | 22440271 | EL, 0.47mfd, 50V |
| C202 | 22440272 | EL, 1mfd, 50V |
| C203 | 22380070 | PS, 1000pF, 125V, J |
| C204 | 22440271 | EL, 0.47mfd, 50V |
| C205, 206, 207 | 22440320 | EL, 0.22mfd, 50V |
| C208, 209 | 22360605 | BL, 0.015mfd, 25V, M |
| C301 | 22440439 | EL, 0.1mfd, 50V |
| C402 | 22440277 | EL, 22mfd, 6.3V |
| RESISTORS | | |
| All resistors are carbon film, 1/6W, ±5% unless otherwise noted. | | |
| R001 | 22584472 | 4.7K ohm |
| R002 | 22584104 | 100K ohm |
| R003 | 22584224 | 220K ohm |
| R004 | 22584121 | 120 ohm |
| R005 | 22584471 | 470 ohm, (2SK161-O) |
| R005 | 22584331 | 330 ohm, (2SK161-Y) |
| R006 | 22584103 | 10K ohm |
| R101 | 22584103 | 10K ohm |
| R102 | 22584331 | 330 ohm |
| R103 | 22584151 | 150 ohm |
| R104 | 22584392 | 3.9K ohm |
| R105 | 22584473 | 47K ohm |
| R106 | 22584222 | 2.2K ohm |
| R107 | 22584681 | 680 ohm |
| R108 | 22584183 | 18K ohm |
| R201 | 22584331 | 330 ohm, (2SK161-O) |
| R201 | 22584471 | 470 ohm, (2SK161-Y) |
| R202 | 22658654 | 10K ohm, B, Semi-fixed Variable Resistor |
| R203 | 22584103 | 10K ohm |
| R204 | 22584102 | 1K ohm |
| R205 | 22570402 | 4.7K ohm |
| R301, 302 | 22584103 | 10K ohm |
| R303 | 22584103 | 10K ohm (YY, AY) |
| R303 | 22584473 | 47K ohm (TA, TC) |
| R304 | 22584473 | 47K ohm |

11-1. BATTERY PACK EXPLODED VIEW

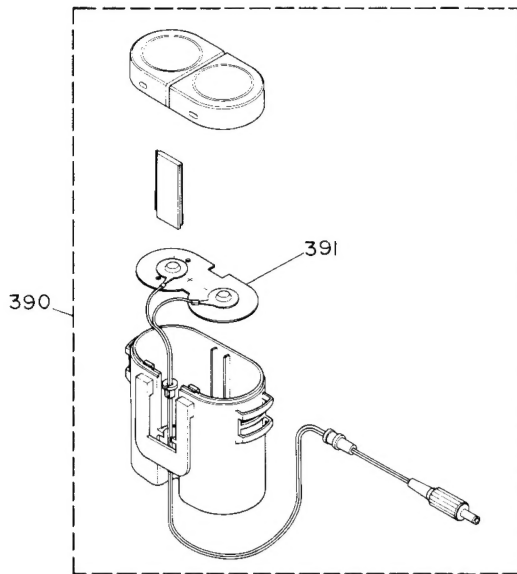


Figure 32

11-2. BATTERY PACK PARTS LIST

| Symbol No. | Part No. | Description |
|------------|----------|--|
| 390 | 25881500 | Battery Pack |
| 391 | 25881579 | Cord Ass'y with Plug and Battery Contact |

12-1. UNIT HOLDER EXPLODED VIEW

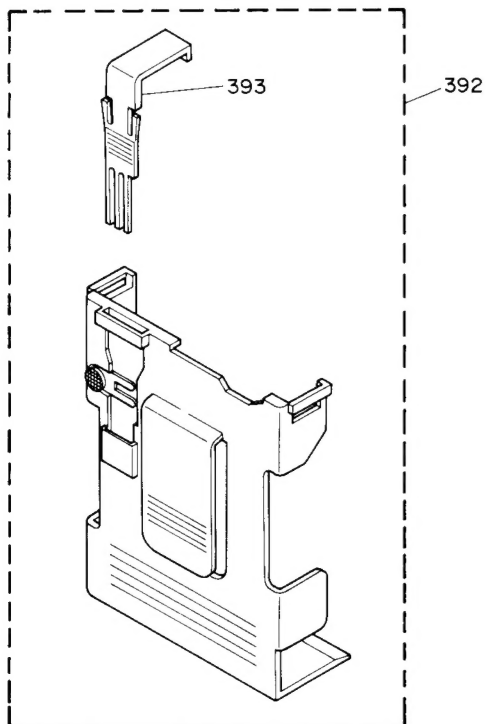


Figure 33

12-2. UNIT HOLDER PARTS LIST

| Symbol No. | Part No. | Description |
|------------|----------|-------------------|
| 392 | 22991094 | Unit Holder Ass'y |
| 393 | 25835484 | Holder Lever |

13-1 HEADPHONE EXPLDED VIEW
-TA, TC, AY, YY-

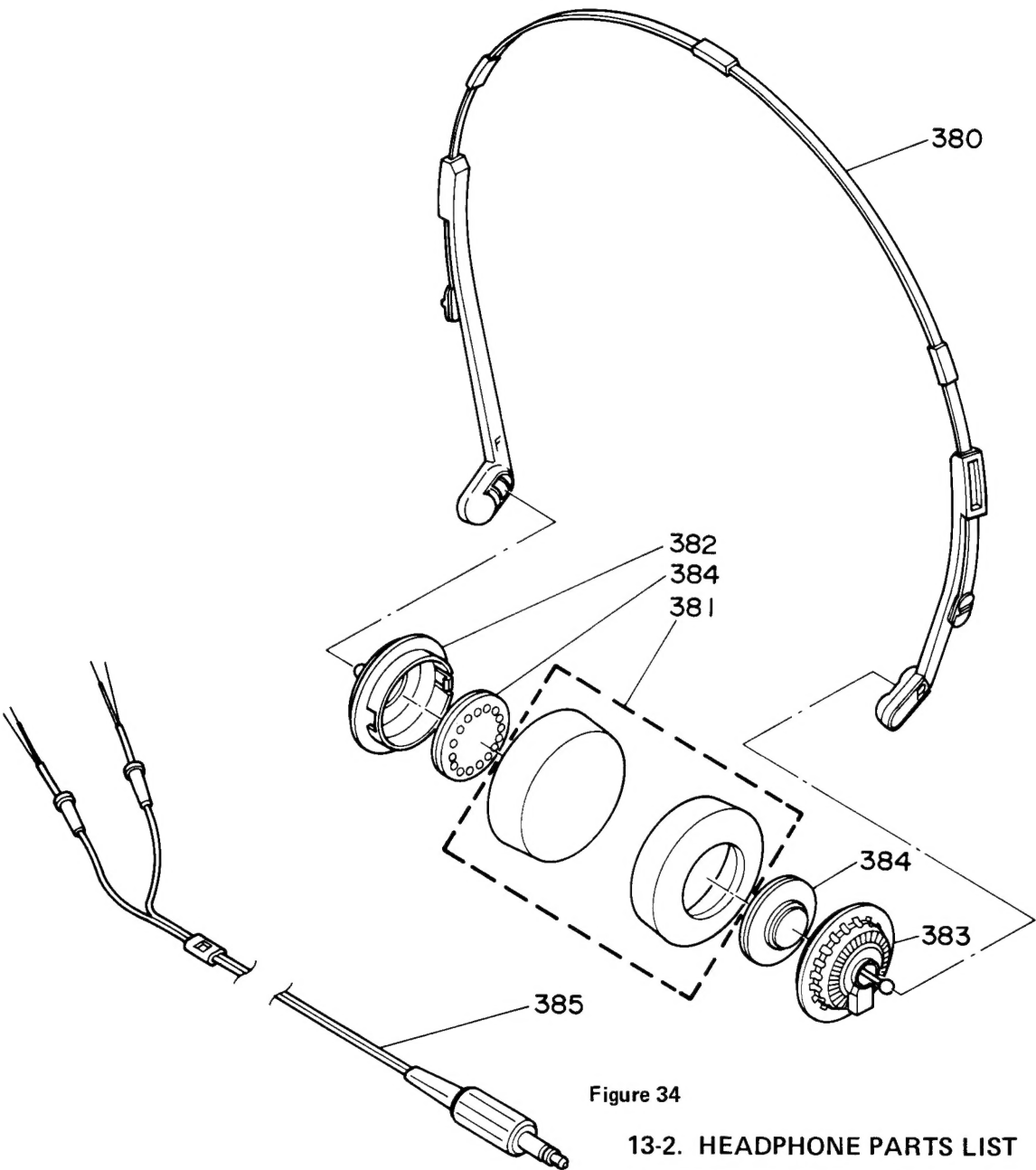


Figure 34

13-2. HEADPHONE PARTS LIST

| Symbol No. | Part No. | Description |
|------------|----------|--|
| 380 | 22810080 | Head Band Ass'y, (TA, TC, YY, AY) |
| 381 | 22810081 | Ear Pad Ass'y, (TA, TC, YY, AY) |
| 382 | 22810082 | Housing, L, (TA, TC, YY, AY) |
| 383 | 22810083 | Housing, R, (TA, TC, YY, AY) |
| 384 | 22810084 | Driver, Unit, (TA, TC, YY, AY) |
| 385 | 22810085 | Cord Ass'y with Plug, (TA, TC, YY, AY) |

13-3. HEADPHONE EXPLODED VIEW

-FY-

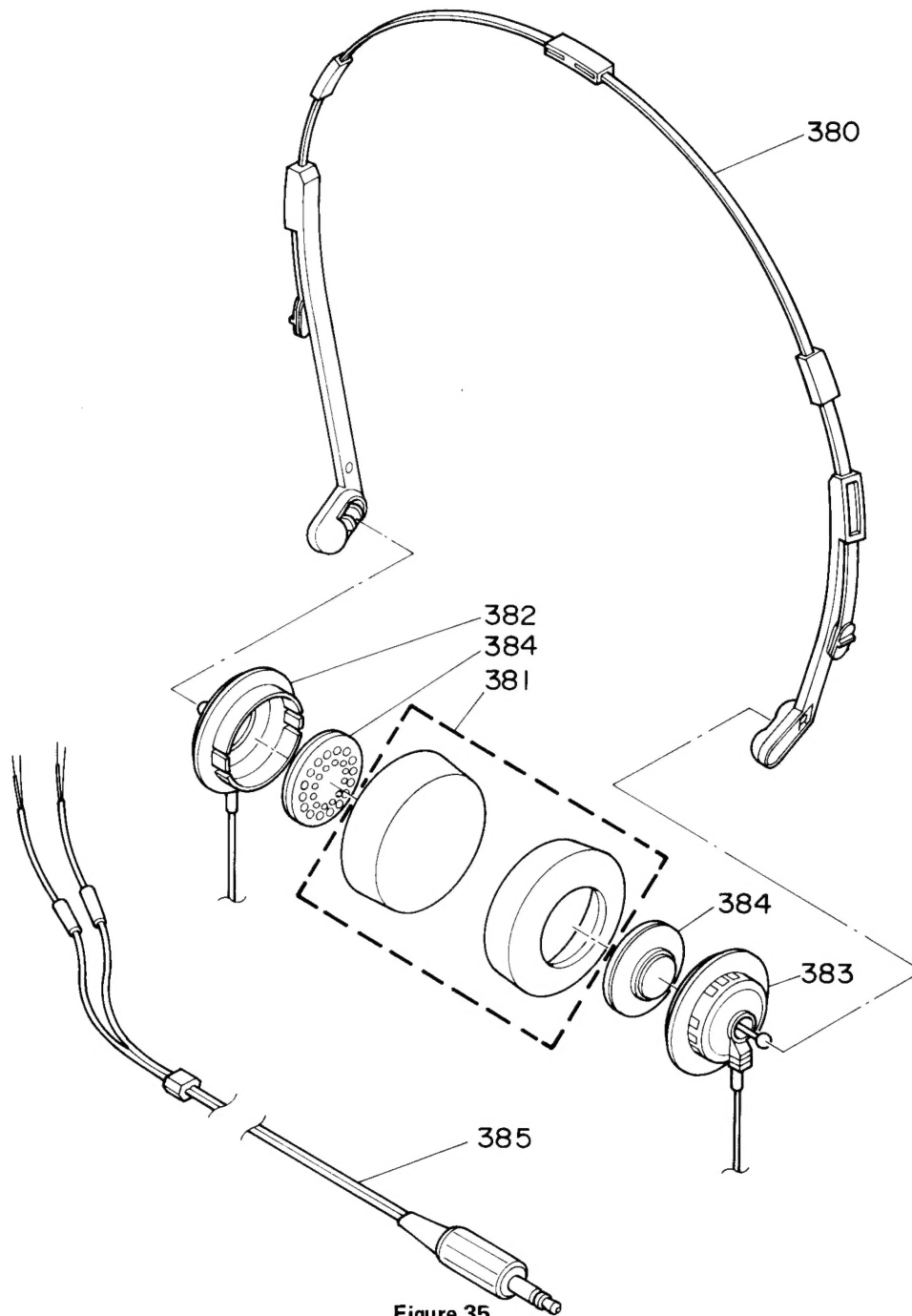


Figure 35

13-4. HEADPHONE PARTS LIST

| Symbol No. | Part No. | Description |
|------------|----------|----------------------------|
| 380 | 22810086 | Head Band Ass'y, (FY) |
| 381 | 22810087 | Ear Pad Ass'y, (FY) |
| 382 | 22810088 | Housing, L, (FY) |
| 383 | 22810089 | Housing, R, (FY) |
| 384 | 22810090 | Driver Unit, (FY) |
| 385 | 22810091 | Cord Ass'y with Plug, (FY) |

14. ACCESSORIES PARTS LIST

| Symbol No. | Part No. | Description |
|------------|----------|----------------------|
| AC01 | 22903424 | Owner's Manual, (TA) |
| AC01 | 22903425 | Owner's Manual, (TC) |
| AC01 | 22903426 | Owner's Manual, (YY) |
| AC01 | 22903427 | Owner's Manual, (AY) |
| AC01 | 22903428 | Owner's Manual, (FY) |
| AC02 | 22991102 | Belt |

TOSHIBA CORPORATION

2-1, GINZA 5-CHOME, CHUO-KU, TOKYO 104, JAPAN